WHAT IS CLAIMED IS:

1. A system for measuring phase noise, comprising:

a tuner for tuning a signal from a device and converting the signal to a baseband signal;

at least one analog-to-digital converter (ADC) for capturing data from the baseband signal;

a timing processor for acquiring and tracking symbol timing of the captured data of the baseband signal;

a carrier processor for determining unwrapped phase history data from the tracked symbol timing;

a line fitting processor for determining a linear phase by fitting a straight line to the unwrapped phase history data; and

a subtractor for subtracting the linear phase from the phase history data to produce a residual phase of the carrier.

2. The system of claim 1, further comprising a fast Fourier transform (FFT) processor for determining a phase noise spectrum from the residual phase from the subtractor.

3. The system of claim 2, wherein the phase noise spectrum is scaled to dBc/KHz.

4. The system of claim 1, wherein the line fitting processor performs a minimum mean square (MMS) operation on the phase history data to determine the linear phase.

5. The system of claim 1, wherein the signal is from a low noise block (LNB) and the residual phase is substantially a performance measurement of the LNB.

6. The system of claim 1, wherein the signal comprises a satellite television signal.

7. The system of claim 1, wherein the captured data comprises a length based upon a lowest frequency of interest.

8. The system of claim 1, comprising more than one ADC and wherein the captured data comprises in-phase (I) and quadrature (Q) components.

9. A method for measuring phase noise, comprising the steps of:

tuning a signal from a device and converting the signal to a baseband signal;

capturing data from the baseband signal;

acquire and track the captured data of the baseband signal to determine symbol timing tracked data;

determine unwrapped phase history from the symbol timing tracked data;

fitting a straight line to the unwrapped phase history data to determine a linear phase; and

subtracting the linear phase from the phase history data to produce a residual phase of the signal.

10. The method of claim 9, further comprising determining a phase noise spectrum from the residual phase with a fast Fourier transform (FFT) processor.

11. The method of claim 10, further comprising scaling the phase noise spectrum to dBc/KHz.

12. The method of claim 9, wherein fitting the straight line comprises performing a minimum mean square (MMS) operation on the phase history data to determine the linear phase.

13. The method of claim 9, wherein the signal is from a low noise block (LNB) and the residual phase is substantially a performance measurement of the LNB.

14. The method of claim 9, wherein the signal comprises a satellite television signal.

15. The method of claim 9, wherein the captured data comprises a length based upon a lowest frequency of interest.

16. The method of claim 9, comprising more than one ADC and wherein the captured data comprises in-phase (I) and quadrature (Q) components.

17. A system for measuring phase noise, comprising:

means for tuning a signal from a device and converting the signal to a baseband signal;

means for capturing data from the baseband signal;

means for acquiring and tracking symbol timing of the captured data of the baseband signal;

means for determining unwrapped phase history data from the tracked symbol timing;

means for determining a linear phase by fitting a straight line to the unwrapped phase history data; and

means for subtracting the linear phase from the phase history data to produce a residual phase of the signal.